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Date of Filing : 19 FEB 2004

Application Number : 200400777-9

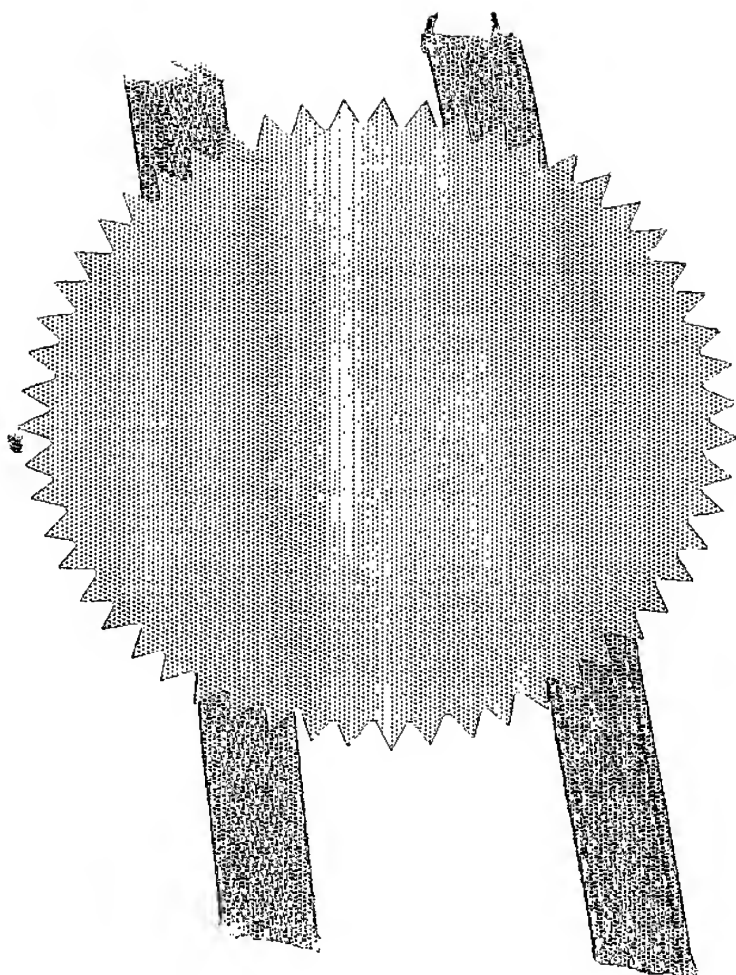
Applicant(s) /
Proprietor(s) of Patent : EYE-BIZ PTE LTD

Title of Invention : SPECTACLE FRAMES

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25 Feb 2005



PF1

Common Form Index

Entry Date : 19-Feb-2004 16:19:59

Priority : Normal

Classification : Confidential

Lodgement Date : 19-Feb-2004

Remarks :

ReceiptNo : 92600

General Indexes

Your Reference : EYEB/20400253/KC/MT

Title of Invention : SPECTACLE FRAMES

Number of Applicants

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Country of incorporation : SG

State of residency :

Country of residency :

Others :

Declaration of Priority

Country or Country Designated :

File number :

Filing date :

Inventor

Applicants are inventors : No

Form 8 is or will be furnished : Yes

Claiming an earlier filing date under

Section :

Patent application number :

Filing date :

Proceeding under :

Date on which earlier application was amended :

Section 14 4 c Requirements

The invention has been displayed at an international exhibition : No

Section 114 Requirements

The invention relates to and or used a microorganism deposited for the purposes of

disclosure in accordance with section 114 with depository authority under the Budapest Treaty : No

Checklist (A) The application consists of the following number of sheets

Request :

Description without Claims :

Description with Claims : 16

Drawings : 11

Abstract : 1

Total number of sheets (B) The application as filed is accompanied by : 28

Priority documents : No

Inventorship statement : No

Translation of Priority Documents : No

International Exhibition Certificate : No

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Patents Form 26 is or will be furnished

Patents Form 26 is or will be furnished :

Printed : 25-Feb-2005

Spectacle Frames

Field of the Invention

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This invention relates to spectacle frames and refers particularly, though not exclusively, to spectacle frames having components assembled using clips.

Background to the Invention

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Spectacle frames, assembled without screws or use of soldering, have been made with a front, and two temples, all being made from pressed metal and releasably secured together using a complex arrangement requiring special tools. This is inconvenient for opticians, who would find it much easier if they could insert and

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Summary of the Invention

20

In accordance with a preferred aspect there is provided a spectacle frame comprising:

- (a) a front for holding therein two lenses;
- (b) the front having front end pieces extending rearwardly at each end thereof, each front end piece having an upper portion and a lower portion; and
- (c) one of the upper portion and the lower portion having a geometric projection for engagement in and disengagement from a corresponding

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sized and shaped geometric opening in the other of the upper portion and the lower portion, the engagement and disengagement being by lateral movement only.

30

Preferably, the upper portion has an upper bracket extending inwardly thereof and the lower portion has a lower bracket extending inwardly thereof. The upper bracket and the lower bracket may each have a pin hole therein.

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The upper portion may have an upper notch therein for co-operative engagement with a lower notch in the lower portion to form an opening. The opening may be forwardly of both the geometric projection and the geometric opening; and the

upper bracket and the lower bracket may be intermediate the opening, the geometric opening, and the geometric projection.

5 A clip may be used to releasably retain the geometric projection in the geometric opening. The clip may be generally S-shaped and may comprise:

- (a) a lower arm operatively connected to
- (b) an intermediate arm; the intermediate arm being operatively connected to
- (c) a top arm;

wherein

- 10 (d) a tongue extends inwardly and forwardly from the lower arm for enabling the clip to engage the opening in the front end pieces; and
- (e) a lip extends rearwardly and inwardly from the top arm for providing control of movement of a temple of the spectacle frame.

15 The temple may have:

- (a) a temple end;
- (b) a slot extending rearwardly from the temple;
- (c) an upper pin extending upwardly of the temple end;
- (d) a lower pin extending downwardly of the temple end;
- 20 (e) the slot being able to be compressed by finger pressure to enable the upper pin and lower pin to engage in the pin holes.

The slot may taper in height from the temple end. The temple may also have a temple end offset portion, offset inwardly of the temple. The slot may extend for at
25 least the full extent of the temple end offset portion. The clip may be integral with the temple.

In another aspect there is provided a clip for engagement with front end pieces of a spectacle frame, the clip being generally S-shaped and comprising:

- 30 (a) a lower arm operatively connected to
- (b) an intermediate arm, the intermediate arm being operatively connected to
- (c) a top arm;

wherein

- 35 (d) a tongue extends inwardly and forwardly from the lower arm for enabling the clip to engage an opening in the front end pieces; and
- (e) a lip extends rearwardly and inwardly from the top arm for providing control of movement of a temple of the spectacle frame.

A narrow gap may be formed between the tongue and the intermediate arm, the narrow gap preferably being less than a thickness of the front end pieces. The lip may contact the intermediate arm to form a closed loop when temple is in closed position and under pressure. The clip may be a spring clip. The temple may be integral with the clip. A slot may extend from the top arm of the clip into the temple.

In a further aspect there is provided a temple for engagement with front end pieces of a spectacle frame, the temple comprising:

- (a) a temple end;
- (b) a slot extending rearwardly from the temple end;
- (c) an upper pin extending upwardly of the temple end;
- (d) a lower pin extending downwardly of the temple end;
- (e) the slot being able to be compressed by finger pressure to enable the upper pin and lower pin to engage in pin holes of the front end pieces.

The temple may further include a temple end offset portion offset inwardly of the temple. The slot may extend rearwardly beyond the front offset portion, and may taper in height from the temple end. The slot may extend for at least the full extent of the temple end offset portion. The clip may be integral with the temple. The slot may also extend into the top arm of the clip. The upper bracket may have an upper skirt depending therefrom and the lower bracket may have a lower skirt extending upwardly therefrom. The temple may further comprise an integral clip. The clip may be generally S-shaped and may comprise:

- (a) a lower arm operatively connected to
- (b) an intermediate arm, the intermediate arm being operatively connected to a top arm;
- wherein
- (c) a tongue extends inwardly and forwardly from the lower arm for enabling the clip to engage the opening in the front end pieces; and
- (d) a lip extends rearwardly and inwardly from the top arm for providing control of movement of a temple of the spectacle frame.

A narrow gap may formed between the tongue and the intermediate arm, the narrow gap being less than a thickness of the front end pieces. When the clip is

under compression, the lip may contact the intermediate arm to form a closed loop. The clip may be a spring clip. The slot may extend from the top arm of the clip into the temple.

- 5 The temple may further comprise a rear end with an elongate slot therein with a split end, the rear end being adapted to engage longitudinal grooves of a temple tip. The longitudinal grooves may end with wells for the split end.

10 In a final aspect, there is provided a method for inserting a lens into a rim of a spectacle frame, the method comprising:

- (a) opening the rim;
- (b) inserting the lens in the rim;
- (c) closing the rim;
- (d) moving a geometric projection of a first portion of a front end piece of the rim to be adjacent and aligned with a correspondingly sized and shaped geometric opening of a second portion of the front end piece;
- 15 (e) using finger pressure to relatively move the first portion and the second portion, the movement being laterally, and the movement being until the geometric projection engages in the geometric opening so as to lock the rim in the closed position; and
- 20 (f) using finger pressure to apply a retainer to hold the geometric projection in the geometric opening.

The retainer may be a clip. The clip may be as described above.

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Brief Description of the Drawings

30 In order that the invention may be readily understood and put into practical effect, there shall now be described by way of non-limitative example only preferred embodiments of the present invention, the description being with reference to the accompanying illustrative drawings in which:

Figure 1 is a rear perspective view of one embodiment of a spectacle frame when assembled;

Figure 2 is a rear perspective view of the front of the embodiment of Figure 1;

35 Figure 3 is an enlarged view of the end pieces of one side of the front of Figure 2;

Figure 4 is a top perspective view of one clip as used with the embodiment of Figure 1;

- Figure 5 is a top view of the clip of Figure 4;
 Figure 6 is a top perspective view showing the first stage of assembling the clip of Figures 4 and 5 with the end pieces of Figure 3;
 Figure 7 is a top view corresponding to Figure 6;
 5 Figure 8 is a top view of the assembled clip and end pieces, prior to attachment of the temple;
 Figure 9 is a view corresponding to Figure 8 at the completion of the attachment of the temple;
 Figure 10 is a perspective view corresponding to Figure 9;
 10 Figure 11 is a perspective view corresponding to Figure 8, with the clip removed;
 Figure 12 is a top view corresponding to Figure 9 showing the temple in the open and closed position;
 Figure 13 is an enlarged top view of the hinge showing the temple in the open position;
 15 Figure 14 is a partial top view corresponding to Figure 13;
 Figure 15 is a partial top view corresponding to Figure 14 when an excessive open force is applied to a temple when it is already in the open position;
 Figure 16 is a partial perspective view of front end pieces according to a second embodiment;
 20 Figure 17 is a partial perspective view of a second embodiment of temple;
 Figure 18 is a partial perspective view of the temple of Figure 17 fitted to the front end pieces of Figure 16;
 Figure 19 is a top view corresponding to Figure 18; and
 Figure 20 is a partial side view of a third embodiment of a temple.

25 **Detailed Description of Preferred Embodiment**

Throughout the description, like components have like reference numerals.

- Figure 1 shows a spectacle frame generally designated as 10 comprising a right
 30 temple 12, a left temple 14, a front 16, lenses 18, nose pads 24, and clips 20 at front end pieces 22 to releasably secure the frame 10.

The nose pads 24 are mounted on arms 30 in a known manner. Arms 30 are preferably integrally formed with front 16.

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The front 16 also includes a bridge 26 and rims 28. Rims 28 may be complete, as shown, partial (top or bottom), or front 16 may be rimless. If rimless, bridge 26

arms 30 and front end pieces 22 may be securely yet releasably attached to lenses 18 in a known manner.

5 To be able to insert and remove lenses 18 from rims 28, rims 28 need to be able to be opened and closed, preferably without the need for special tools. More preferably, it should be able to be done using only hand and/or finger pressure. This is shown in Figures 2 and 3.

10 Each of the front end pieces 22 are formed or manufactured as an upper end piece 32 and a lower end piece 34, the upper end piece 32 and lower end piece 34 being able to be selectively moved to open rims 28, or to close rims 28. This is by upper end piece 32 having a geometric opening 36 and lower end piece 34 having a correspondingly-shaped and sized geometric projection 38 able to be releasably received in the opening 36. The geometric shape of opening 36 and projection 38
15 is such that relative movement therebetween is only possible laterally and is not possible in the planes of the end pieces 32, 34.

In this way projection 38 is placed adjacent opening 36 and either or both upper end piece 32 and lower end piece 34 are moved laterally to have projection 38
20 occupy opening 36.

The geometric shape of opening 36 and projection 38 may be any suitable shape such as, for example, T (as shown), F, Y, inverted L, inverted J, Z, O, and so forth. For opening 36, and thus projection 38, there is an upper portion 40 and a lower
25 portion 42. The upper portion 40 should be of greater width than the lower connecting portion 42 to prevent relative movement in the plane of the end pieces 22.

Each of the upper end piece 32 and lower end piece 34 has an aligned notch 44
30 therein such that, when the end pieces 32, 34 are assembled, notches 44 combine to form an opening 46. Preferably, opening 46 is rectangular, as shown. Notches 44 are located forwardly of but adjacent to opening 36 and projection 38.

As an alternative, lower end piece 34 may have opening 36 and upper end piece
35 32 may have projection 38.

Extending inwardly from upper edge of upper end piece 32 and lower edge of lower end piece 34 are upper brackets 45 and 47 respectively. Brackets 45, 47 are located between opening 36 and notch 44, and projection 38 and notch 44, respectively. Each bracket 44, 46 has a pin hole 48 therein.

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The clips 20 required to hold the assembly are shown in Figures 4 and 5. Each clip 20 is generally S-shaped with a tongue 50 at one end, and an upturned lip 52 at the other end. The tongue 50 extends forwardly and inwardly, and lip 52 extends rearwardly and inwardly. As is clear from Figure 5, when the clip 20 is under a compressive force, the upturned lip 52 contacts the remainder of the clip 20 to form a closed loop 54. The tongue 50 forms a narrow gap 56 with the remainder of the clip 20. Preferably, the narrow gap 56 is preferably less than the thickness of the front end pieces 22 so that it will fit securely around front end pieces 22. The clips 20 are spring clips preferably of a high tensile-strength stainless-steel.

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The assembly of the clips 20 with front end pieces 22 is shown in Figures 6 to 8. After inserting the lenses 18 in rims 28, the end pieces 22 are assembled as shown in Figures 2 and 3, and as described above. Tongue 50 is then placed in opening 46 and narrow gap 56 enlarged by forcing the clips 20 over end pieces 22 by finger pressure. The clip 20 is then moved such that its lower arm 58 is pressing on the outer side of end pieces 22, and intermediate arm 60 is pressing on the inner side of end pieces 22. As narrow gap 56 is less than the thickness of end pieces 22, the arms 58, 60 exert a force on both sides of end pieces 22 between opening 46 and edge of end pieces 32, 34. As arms 58, 60 are generally flat, and as the clips 20 extend from opening 46 over the ends of end pieces 22, the forces are exerted on projection 38 to maintain projection 38 in opening 36. By virtue of the geometric shape of projection 38 and opening 36, the projection 38 cannot be accidentally disengaged from opening 36 due to the applied lateral forces of clip 20.

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To remove lenses 18, all that is required is to reverse the above procedure – remove clips 20 by finger pressure, remove projection 38 from opening 36 by lateral movements, open rims 28, and remove lenses 18.

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The temples 12, 14 are mirror images of each other. Their construction, and assembly/disassembly, are the same. This is shown in Figures 8 to 11. The

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temples 12, 14 are assembled with front 16 after clips 20 have been placed on end pieces 22.

Each temple 12, 14 has a rear end 64 with a cover 66 in accordance with known techniques, designs, and materials for cover 66. The temples 12,14 each have a front, temple end 68 that has an inwardly-offset temple end 70 with upwardly and downwardly directed pins 72 sized and shaped to fit into pin holes 48 in brackets 45, 47. The extent of the offset of offset temple end 70 is approximately the same as the thickness of clip 20 when assembled on end pieces 22 (see Figure 9).

10

An elongate slot 74 in and through each temple 12,14 extends rearwardly from temple end 68 for the entire extent of offset temple end 70, and preferably rearwardly beyond offset temple end 70. Preferably, the slot 74 tapers in height from its front 76 to its rear 78. In this way the offset temple end 70 has an upper portion 80 and a lower portion 82. By use of finger pressure, portions 80, 82 can be forced closer together thus reducing the height of slot 74 at its front 76. This enables pins 72 to be engaged in pin holes 48 in upper end lower brackets 45, 47. By having temples 12, 14 of a resilient material such as, for example, high tensile-strength stainless steel, release of the finger pressure of upper and lower portions 80, 82 allows slot 74 to resume its normal height and pins 72 to fully engage in pin holes 48. Removal is the reverse procedure. Temples 12,14 can therefore pivot about pins 72, with pins 72 and pin holes 48 acting as a hinge.

The shape and resiliency of top arm 62 of clips 20 provides an appropriate cam, or over centre, action for each temple 12,14. This is shown in Figures 12 to 15. When the temple 14 is in the open position, it contacts lip 52 to thus provide a limit of the arcuate movement of temple 14. The resilient nature of clip 20, and thus top arm 62 and lip 52, allows for excessive movement/force (Figure 15) but in, the end, lip 52 is laid substantially flat against intermediate arm 60 and thus further movement of temple 14 is impossible without risking damage. When temple 12,14 is in open position, temple end 68 does not contact clip 20.

When each temple 12,14 is moved to the closed position, temple end 68 moves from no contact with clip 20, to contacting top arm 62 of clip 20. This provides a resistance to movement of the temple 12,14. Due to the sloping nature of top arm 62, the resistance is strongest at the start of the movement. The initial contact of temple end 68 with top arm 62 compresses top arm 62. As the temple continues

its movement, compression continues and lip 52 contacts intermediate arm 60. This requires about 25 degrees of movement by temple 12,14. As such during that part of the movement, there is a strong tendency for the temple 12,14 to return to the fully open position if the movement force is removed. This is due to the
 5 resiliency of the spring clip 20 acting on temple end 68. Between that position (25 degrees of movement), and almost closed, there will still be a tendency for each temple 12,14 to return to the open position if the movement force is removed, but the natural resistance to movement due to friction may be sufficient to overcome to biasing effect of the clip 20.

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Due to the sloping nature of top arm 62, the resistance to movement decreases as the temple 12,14 approaches the fully closed position. The maximum compressive force applied to the top arm 62 by temple end 68 is when the temple end offset portion 70 is perpendicular to the front end pieces 22. This is slightly before the
 15 fully closed position. Therefore, in moving to the closed position there is a reduction in force for the final part of the movement. This provides an over-centre, or cam, effect such that the temples 12,14 are biased to the fully open, and fully closed positions.

20 Thus; each temple 12, 14 has two "rest" position – fully open, and fully closed. Any position other than these two will be metastable such that the temples 12, 14 are biased to those two positions and will move to one of the two positions on application of a small force to overcome any resistance to movement due to friction.

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As each lip 52 contacts temples 12,14 when temples 12,14 are in the open position, temples are held in that position securely by means of tension.

30 The clips 20 may be integrated with temples 14, 16. This is shown in Figures 16 to 19, where like reference numerals are used for like components but with a prefix number 2.

35 As can be seen from Figure 16, upper end piece 232 and lower end piece 234 are substantially the same as the first embodiment. Projection 238 (and its corresponding opening) are the same, as is slot 246. Upper brackets 245 and 247 are different in that there are no pin holes, and each bracket 245, 247 has a skirt

284 - the skirt 284 of upper bracket 245 extending downwardly, and the skirt 284 of lower bracket extending upwardly.

Figure 17 shows temple 212 with an integrated clip 220. The clip 220 is as before,
 5 with tongue 250 and top arm 262, but lip 252 curves inwardly to a greater extent to merge into temple end 268 of temple 16. Slot 274 of temple 216 may extend into clip 220, at least through top arm 262 and into, but not all the way along, intermediate arm 260. The slot 274 is for the same purpose – compression - to allow temple 212 with integrated clip 220 to be compressed to fit between brackets
 10 245 and 247 after passing between skirts 284.

To assemble temple 212 with upper and lower front end pieces 232, 234 is similar to the first embodiment in that tongue 250 engages slot 246, and the clip 220 is forced over front end piece 222. The difference is that intermediate arm 260 and
 15 top arm 262 are captured behind skirts 284 of top bracket 245 and lower bracket 247, and between top bracket 245 and lower bracket 247. By clip 220 being of a resilient material such as, for example, spring stainless steel, temple 212 can be pivoted about brackets 245, 247 in a normal manner.

20 Figure 20 illustrates a third embodiment of the temple. Again, like reference numerals are used for like components with the addition of a prefix number "3". In the drawing:

- (a) is the temple tip;
- (b) is the cross-section of (a);
- 25 (c) is the temple end; and
- (d) is the assembly of the temple tip on the temple end.

Illustrated are the rear ends 364 of temples 312, 314. Each rear end 364 has a temple cover or tip 366. The temple lip 366 has a solid core 386 with elongate
 30 upper and lower slots 388 from its front end 390 to its rear end 392. At the rear end 392, the slots 388 have extended depth at wells 394. Each rear end 364 of the temples has an elongate slot 396 therethrough terminating in a split end 398. In this way slot 396 can be opened, until split end 398 opens; split end 398 engaged in slots 388, and temple tip 366 pushed over rear end 364 until the split
 35 end 398 engages in wells 394. This will be in the manner of a snap fit, so there is a clear indication to a user when tip 366 is correctly engaged on rear end 364. Therefore, rear end 364 of temples engage over tip 366, rather than the tip 366

engaging over rear end 364, as is normal. Also, part of rear end 364 may be visible to give an attractive appearance.

5 By core 386 being of a greater width than rear end 364, the tip 366 provides adequate protection and cushioning to a user.

10 Whilst there has been described in the foregoing description preferred embodiments of the present invention, it will be understood by those skilled in the technology that many variations or modifications in details of design, construction or operation may be made without departing from the present invention.

The Claims

1. A spectacle frame comprising:
 - (a) a front for holding therein two lenses;
 - 5 (b) the front having front end pieces extending rearwardly at each end thereof, the front end pieces each having an upper portion and a lower portion;
 - 10 (c) one of the upper portion and the lower portion having a geometric projection for engagement in and disengagement from a corresponding sized and shaped geometric opening in the other of the upper portion and the lower portion, the engagement and disengagement being by lateral movement only.
- 15 2. A spectacle frame as claimed in claim 1, wherein the upper portion has an upper bracket extending inwardly thereof and the lower portion has a lower bracket extending inwardly thereof.
- 20 3. A spectacle frame as claimed in claim 1 or claim 2, wherein the upper portion has an upper notch therein for co-operative engagement with a lower notch in the lower portion to form an opening.
- 25 4. A spectacle frame as claimed in claim 3 when appended to claim 2, wherein the opening is forwardly of both the geometric projection and the geometric opening; and the upper bracket and the lower bracket are intermediate the opening, the geometric opening, and the geometric projection.
- 30 5. A spectacle frame as claimed in any one of claim 2 to 4, wherein a clip is used to releasably retain the geometric projection in the geometric opening.
- 35 6. A spectacle frame as claimed in claim 5, wherein the clip is generally S-shaped and comprises:
 - (a) a lower arm operatively connected to
 - (b) an intermediate arm, the intermediate arm being operatively connected to
 - (c) a top arm;

wherein

- (d) a tongue extends inwardly and forwardly from the lower arm for enabling the clip to engage the opening in the front end pieces; and
- 5 (e) a lip extends rearwardly and inwardly from the top arm for providing control of movement of a temple of the spectacle frame.
- 7. A spectacle frame as claimed in claim 6, wherein a narrow gap is formed between the tongue and the intermediate arm, the narrow gap being less than a thickness of the front end pieces.

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- 8. A spectacle frame as claimed in claim 6 or claim 7, wherein when the clip is under compression, the lip contacts the intermediate arm to form a closed loop.

15
- 9. A spectacle frame as claimed in any one of claim 6 to 8, wherein the clip is a spring clip.
- 10. A spectacle frame as claimed in claim 6, wherein the temple comprises:

20

 - (a) a temple end;
 - (b) a slot extending rearwardly from the temple end;
 - (c) an upper pin extending upwardly of the temple end;
 - (d) a lower pin extending downwardly of the temple end;
 - 25 (e) the slot being able to be compressed by finger pressure to enable the upper pin and lower pin to engage in pin holes in the upper bracket and the lower bracket.
- 11. A spectacle frame as claimed in claim 10, further including a temple end offset portion offset inwardly of the temple, the slot extending rearwardly beyond the temple end offset portion, the slot tapering in height from the temple end for at least the full extent of the temple end offset portion.

30
- 12. A spectacle frame as claimed in any one of claims 6 to 11, wherein the clip is integral with the temple.

35
- 13. A spectacle frame as claimed in claim 12 when appended to claim 10, wherein the slot also extends into the top arm of the clip.

14. A spectacle frame as claimed in any one of claims 5 to 13, wherein the upper bracket has an upper skirt depending therefrom and the lower bracket has a lower skirt extending upwardly therefrom.
- 5
15. A clip for engagement with front end pieces of a spectacle frame, the clip being generally S-shaped and comprising:
- 10
- (a) a lower arm operatively connected to
 - (b) an intermediate arm, the intermediate arm being operatively connected to
 - (c) a top arm;
- wherein
- (d) a tongue extends inwardly and forwardly from the lower arm for enabling the clip to engage the opening in the front end pieces;

15

 - and
 - (e) a lip extends rearwardly and inwardly from the top arm for providing control of movement of a temple of the spectacle frame.
16. A clip as claimed in claim 15, wherein a narrow gap is formed between the tongue and the intermediate arm, the narrow gap being less than a thickness of the front end pieces.
- 20
17. A clip as claimed in claim 15 or claim 16, wherein when the clip is under compression, the lip contacts the intermediate arm to form a closed loop.
- 25
18. A clip as claimed in any one of claim 15 to 17, wherein the clip is a spring clip.
19. A clip as claimed in any one of claims 15 to 18, wherein the temple is integral with the clip.
- 30
20. A clip as claimed in claim 19, wherein a slot extends from the top arm of the clip into the temple.
21. A temple for engagement with front end pieces of a spectacle frame, the temple comprising:
- 35
- (a) a temple end;

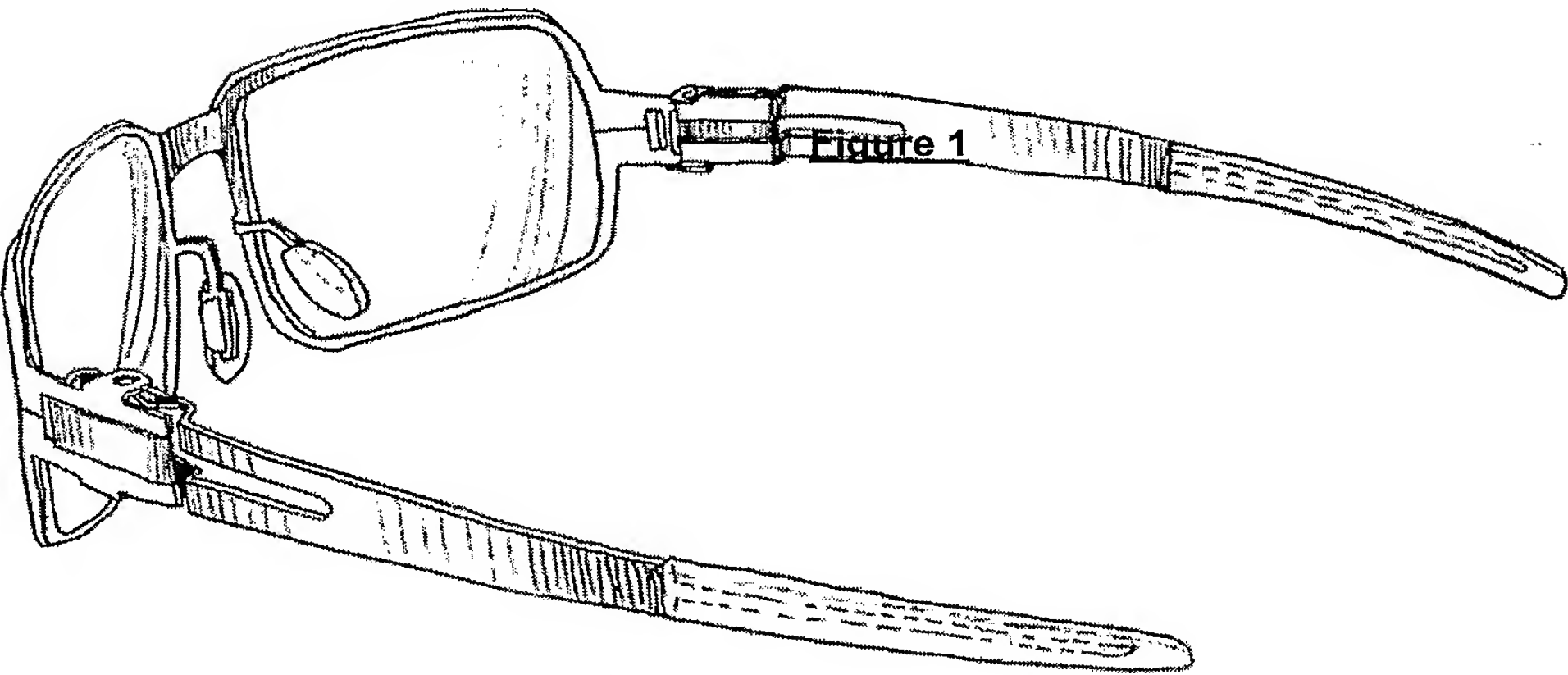
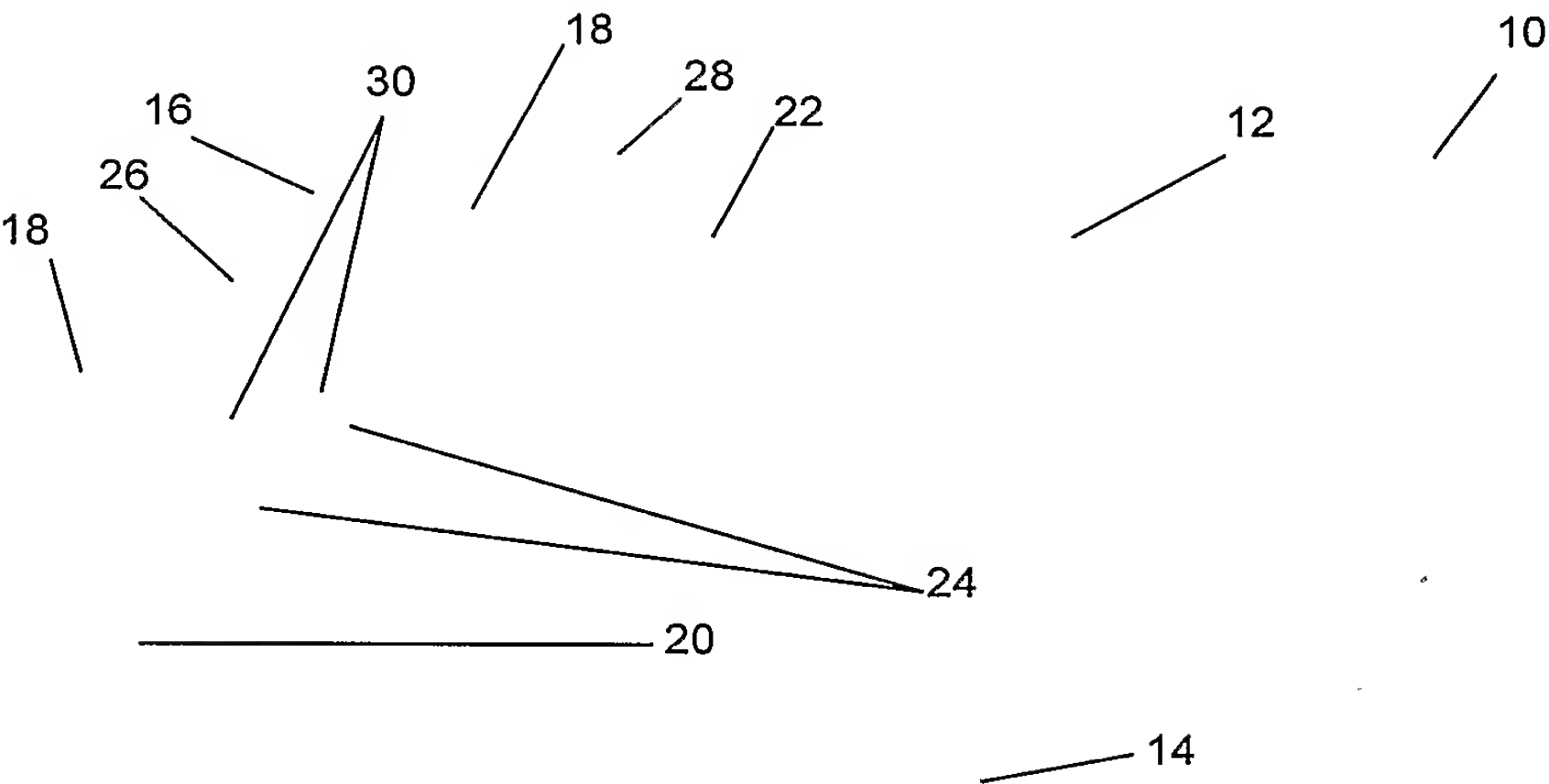
- (b) a slot extending rearwardly from the temple end;
 - (c) an upper pin extending upwardly of the temple end;
 - (d) a lower pin extending downwardly of the temple end;
 - (e) the slot being able to be compressed by finger pressure to enable the upper pin and lower pin to engage in pin holes of the front end pieces.
- 22. A temple as claimed in claim 21, further including a temple end offset portion offset inwardly of the temple, the slot extending rearwardly beyond the front offset portion, and the slot tapering from the temple end.
- 23. A temple as claimed in claim 21, wherein the temple further comprises an integral clip.
- 24. A temple as claimed in claim 23, wherein the clip is generally S-shaped and comprises:
 - (a) a lower arm operatively connected to
 - (b) an intermediate arm, the intermediate arm being operatively connected to
 - (c) a top arm;
 wherein
 - (d) a tongue extends inwardly and forwardly from the lower arm for enabling the clip to engage the opening in the front end pieces; and
 - (e) a lip extends rearwardly and inwardly from the top arm for providing control of movement of a temple of the spectacle frame.
- 25. A temple as claimed in claim 24, wherein a narrow gap is formed between the tongue and the intermediate arm, the narrow gap being less than a thickness of the front end pieces.
- 26. A temple as claimed in claim 24 or claim 25, wherein when the clip is under compression, the lip contacts the intermediate arm to form a closed loop.
- 27. A temple as claimed in any one of claim 23 to 26, wherein the clip is a spring clip.

28. A temple as claimed in any one of claims 24 to 27, wherein the slot extends from the top arm of the clip into the temple.
- 5 29. A temple as claimed in any one of claims 21 to 28, the temple further comprising a rear end with an elongate slot therein with a split end, the rear end being adapted to engage longitudinal grooves of a temple tip.
30. A temple as claimed in claim 29, wherein the longitudinal grooves end with wells for the split end.
- 10 31. A method for inserting a lens into a rim of a spectacle frame, the method comprising:
- 15 (a) opening the rim;
 - (b) inserting the lens in the rim;
 - (c) closing the rim;
 - (d) moving a geometric projection of a first portion of a front end piece of the rim to be adjacent and aligned with a correspondingly sized and shaped geometric opening of a second portion of the front end piece;
 - 20 (e) using finger pressure to relatively move the first portion and the second portion until the geometric projection engages in the geometric opening, the relative movement being lateral; and
 - (f) using finger pressure to apply a retainer to hold the geometric projection in the geometric opening.
- 25 32. A method as claimed in claim 31, wherein the retainer is a clip as claimed in any one of claims 15 to 20.
- 30 33. A method as claimed in claim 31, wherein the temple is as claimed in any one of claims 21 to 30.

Abstract**Spectacle Frames**

5 A spectacle frame comprising a front for holding therein two lenses. The front has
front end pieces extending rearwardly at each end thereof, the front end pieces
having an upper portion and a lower portion. One of the upper portion and the
lower portion has a geometric projection for engagement in and disengageable
10 from a corresponding sized and shaped geometric opening in the other of the
upper portion and the lower portion, the engagement and disengagement being by
lateral movement. The upper portion has an upper bracket extending inwardly
thereof and the lower portion has a lower bracket extending inwardly thereof. The
upper bracket and the lower bracket each has a pin hole therein. A clip is used to
15 releasably retain the geometric projection in the geometric opening.

FIG. 1



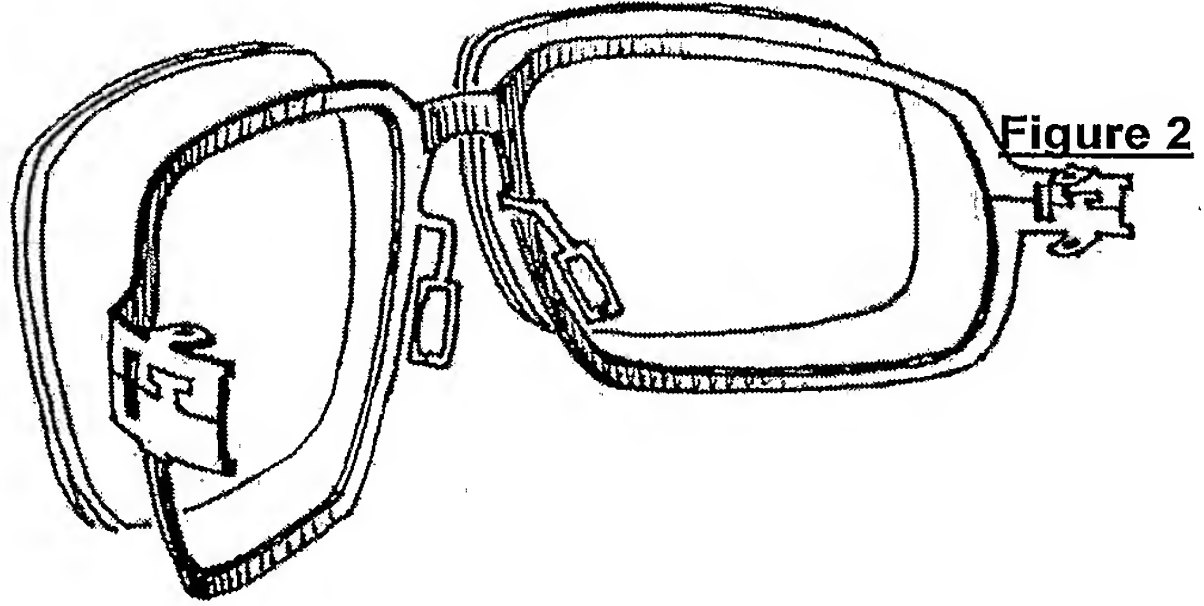
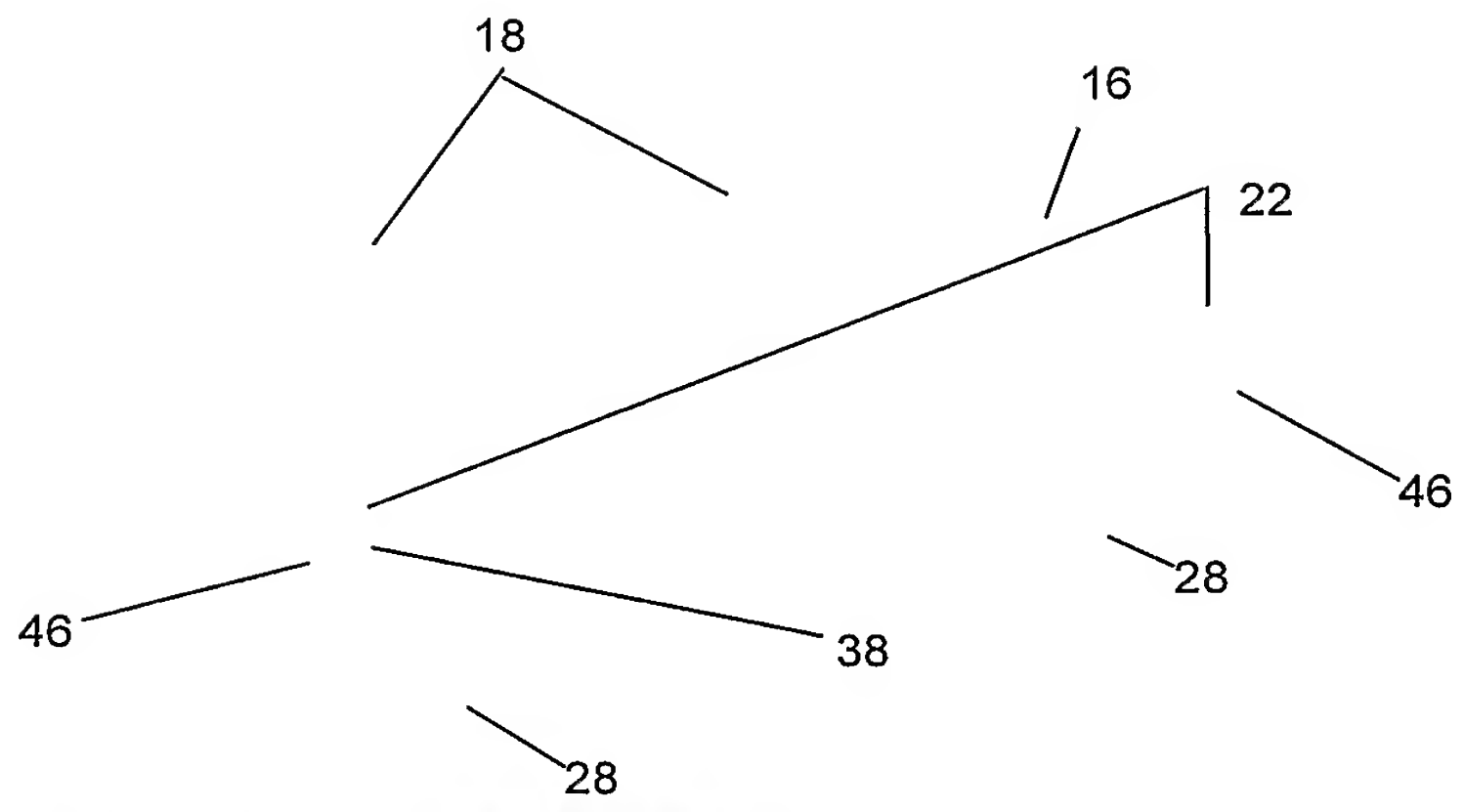


Figure 2

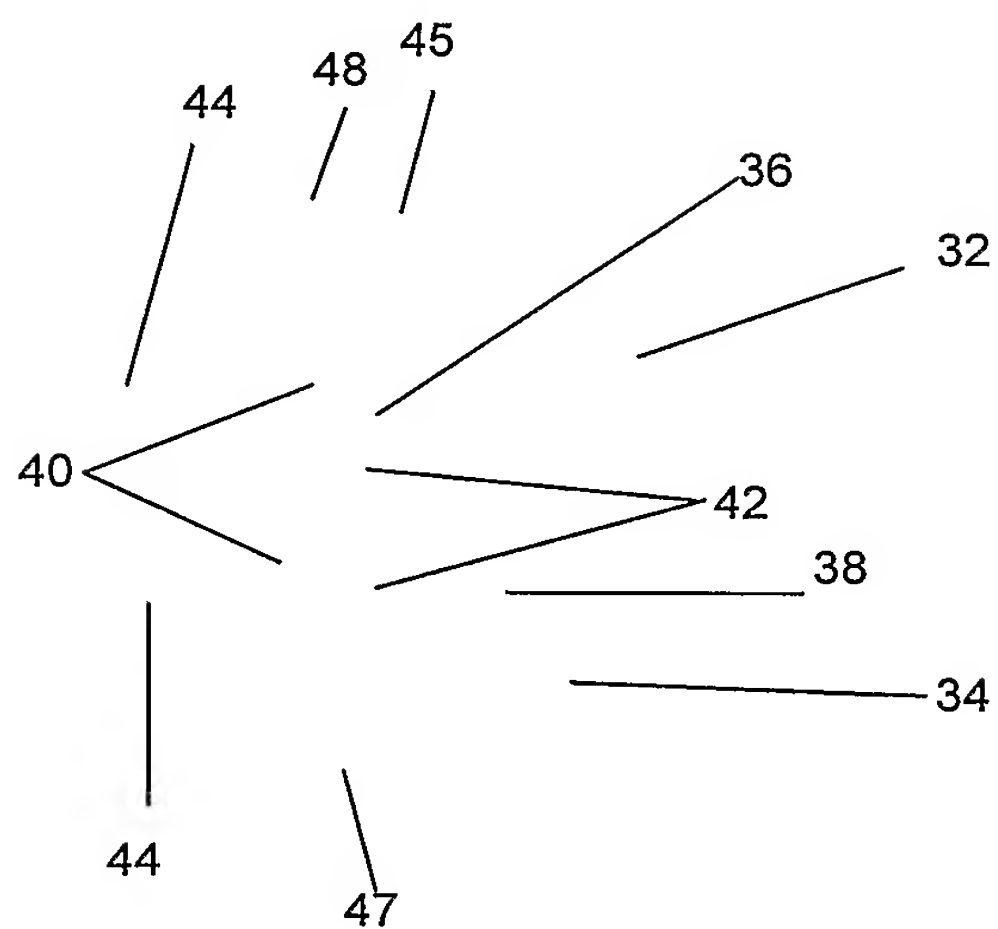
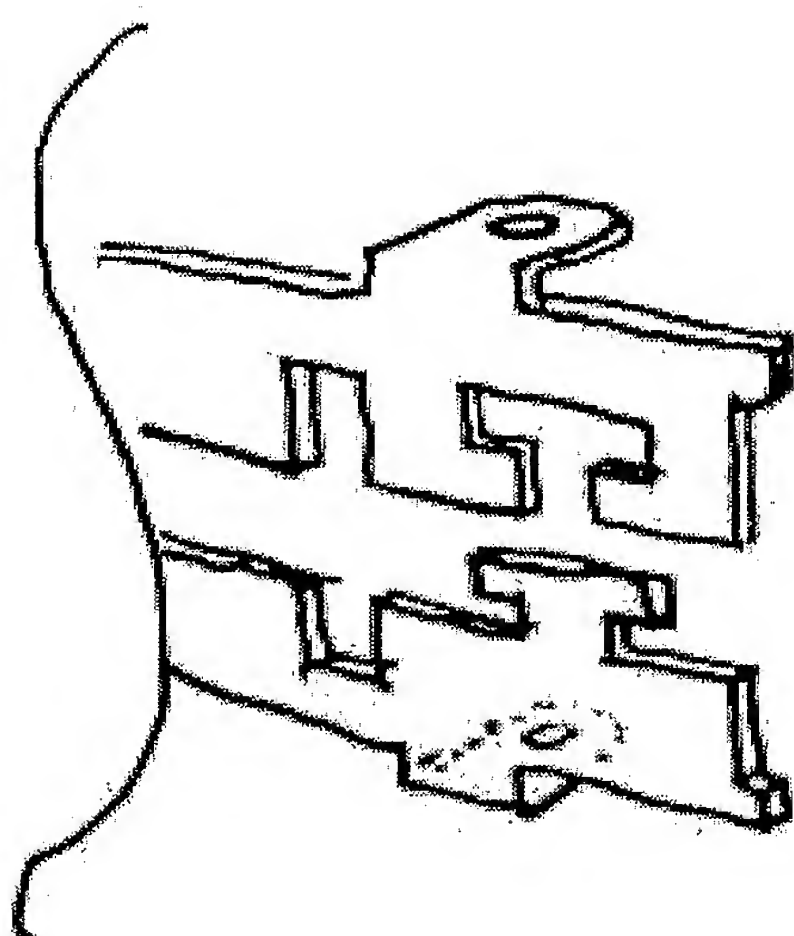


Figure 3

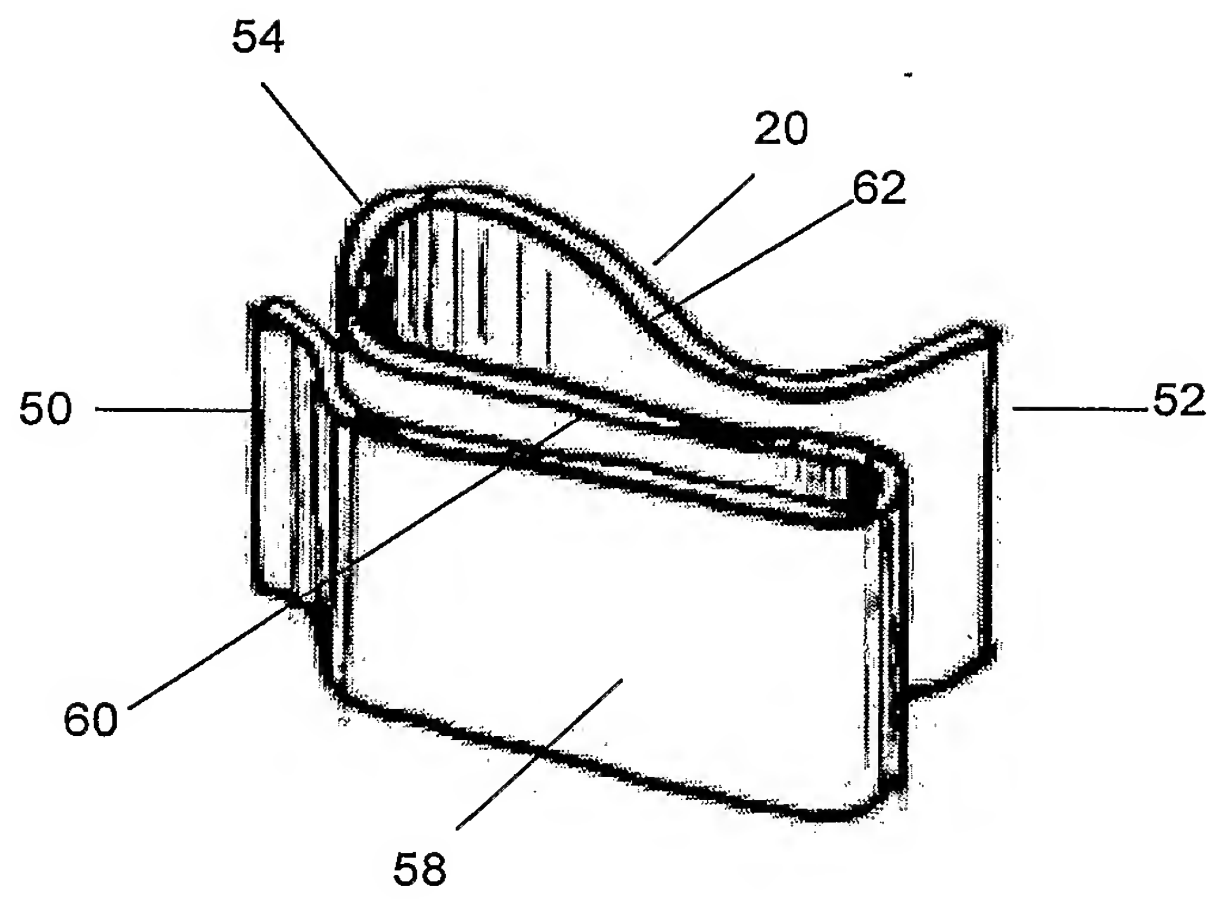


Figure 4

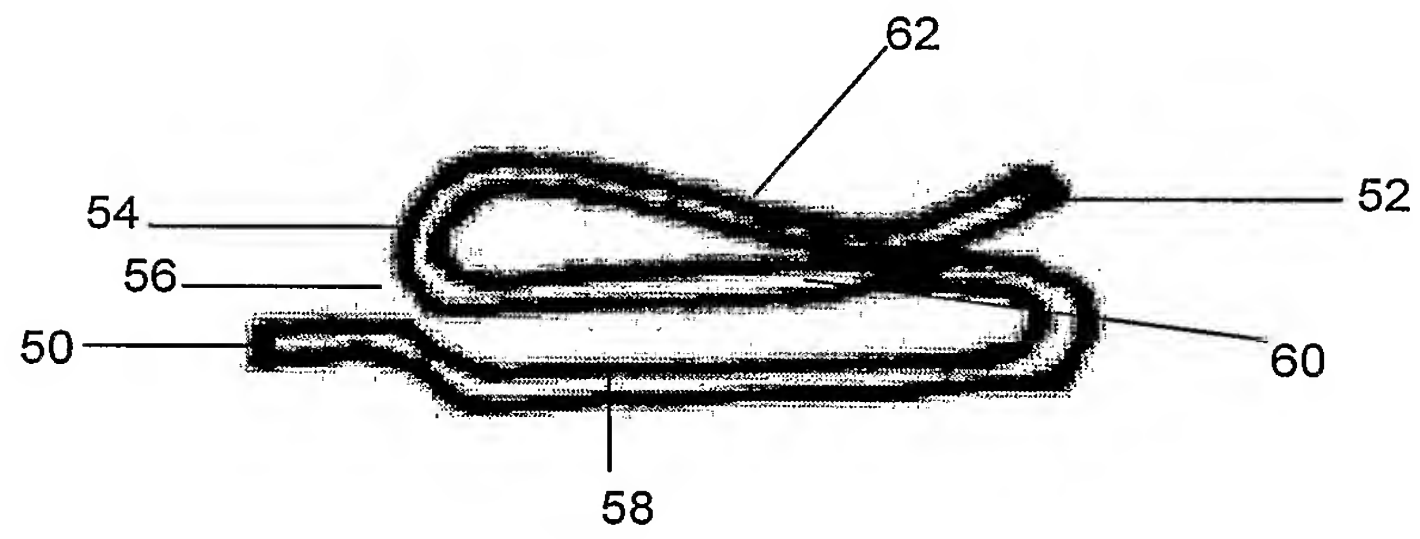


Figure 5

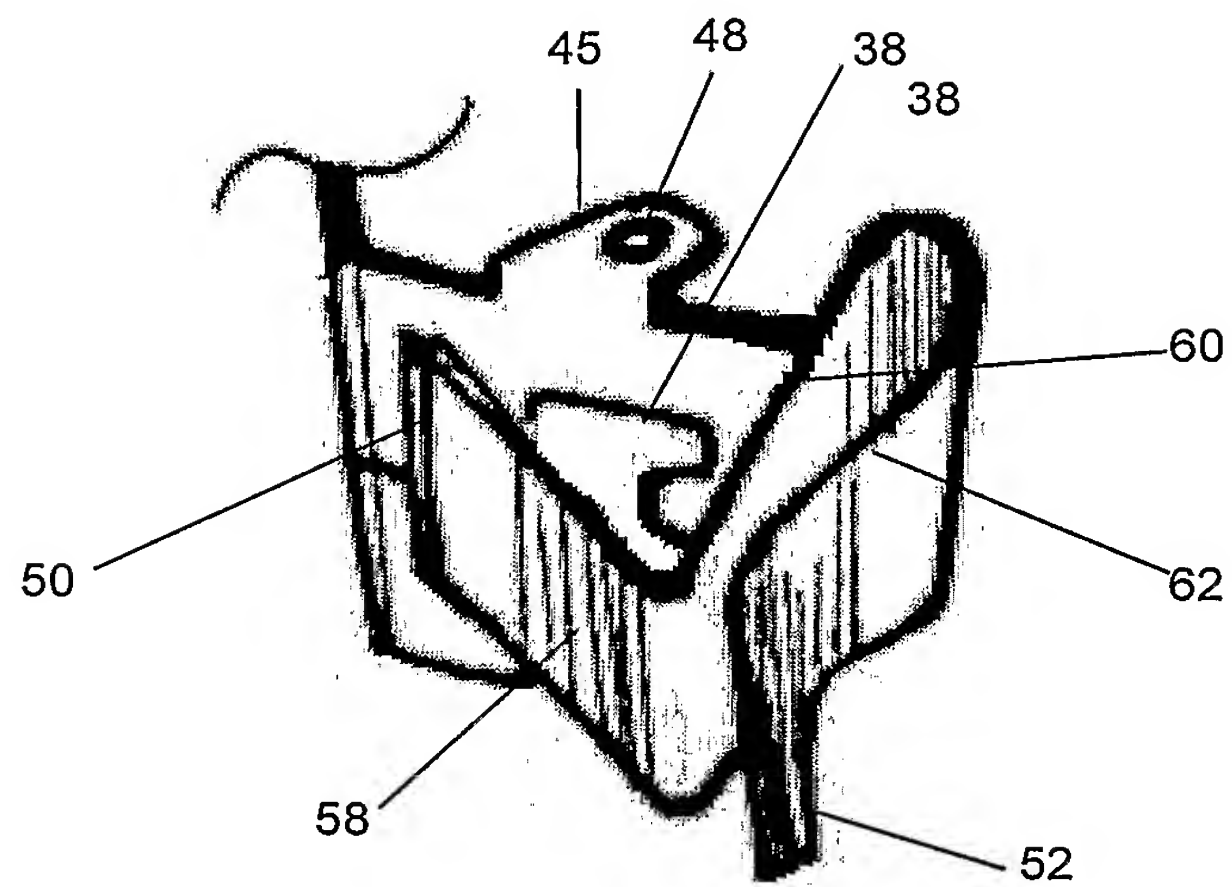


Figure 6

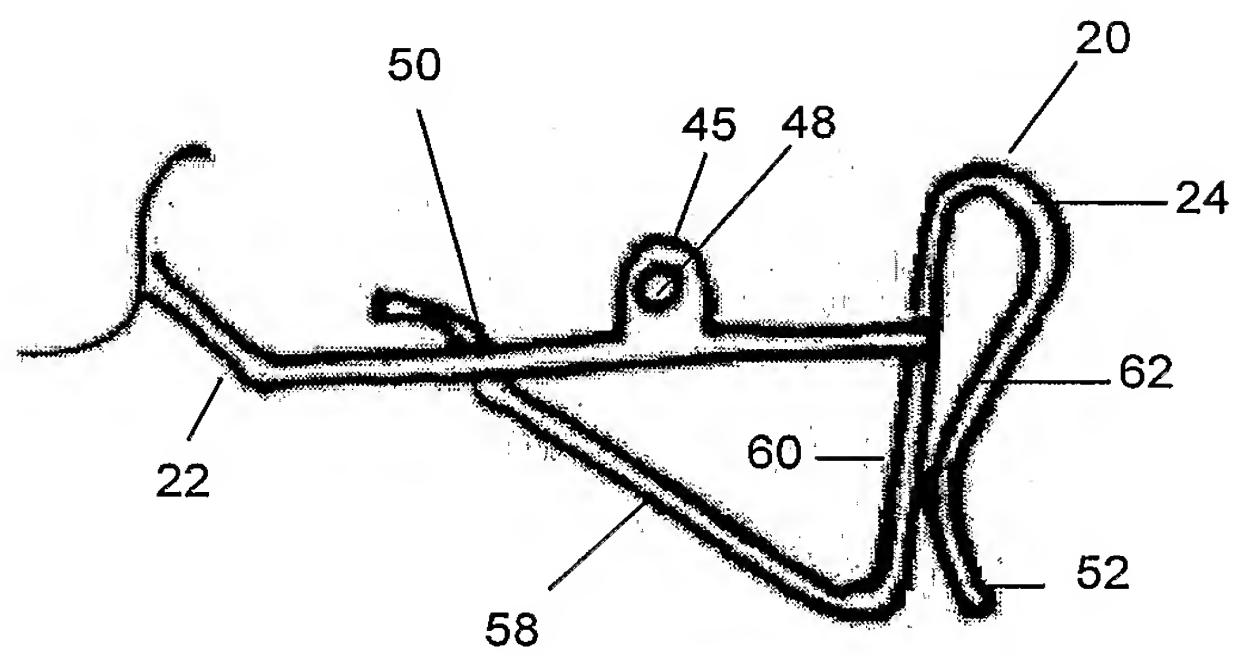


Figure 7

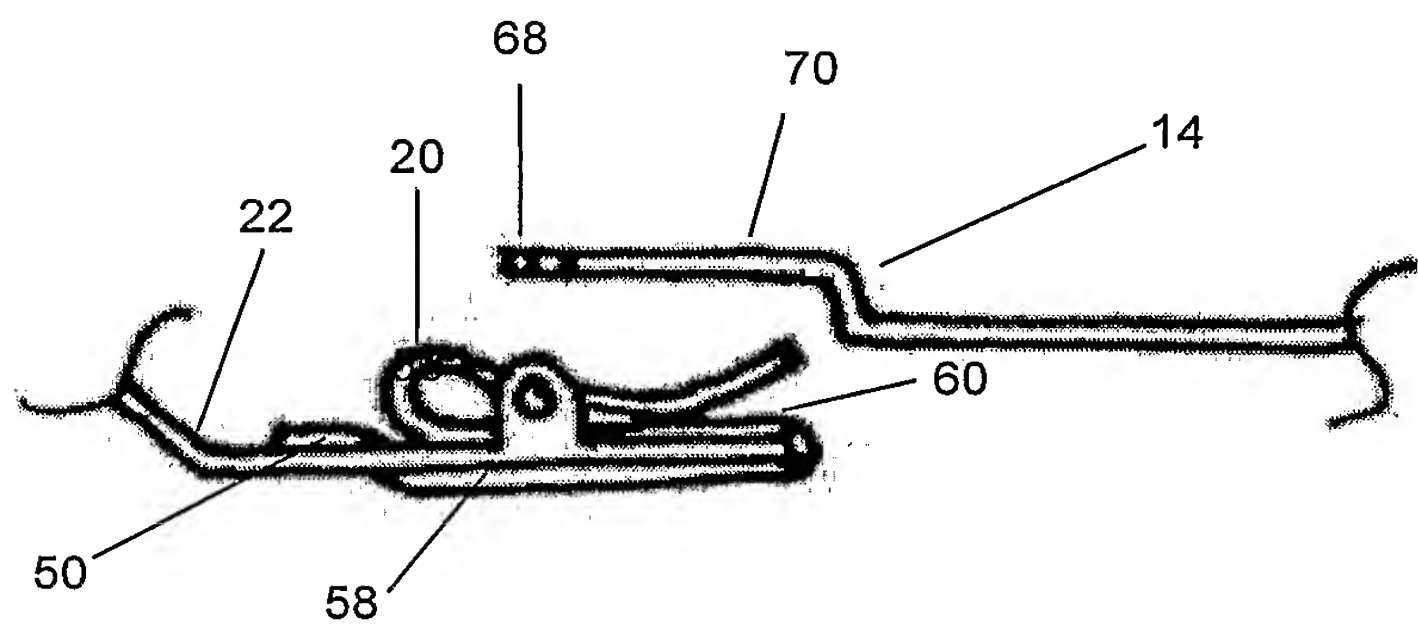


Figure 8

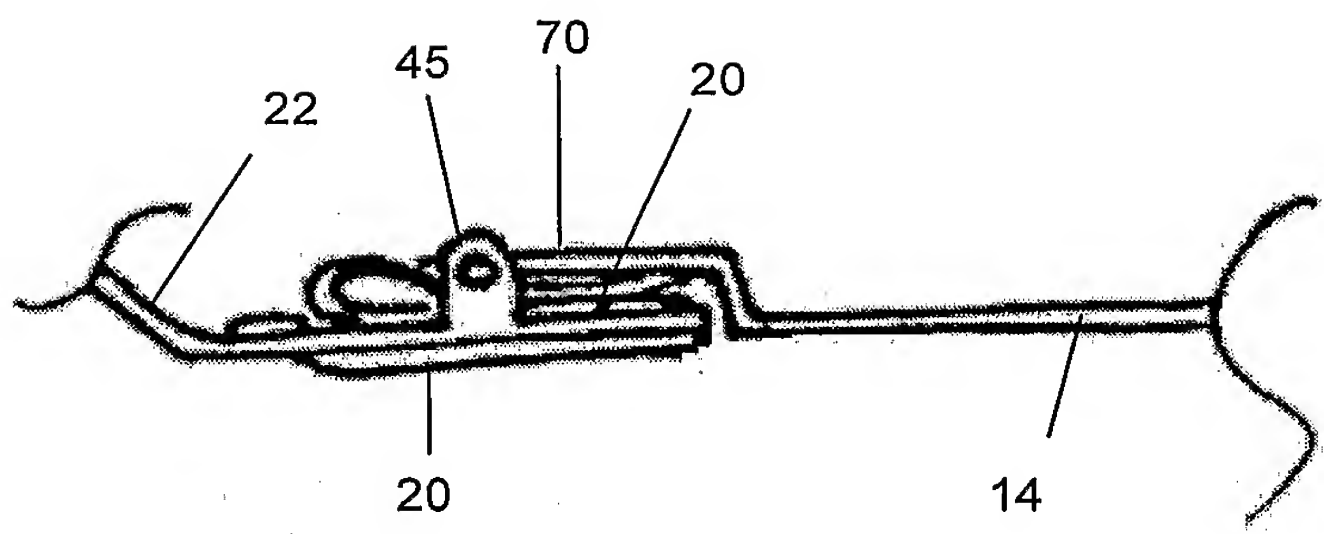


Figure 9

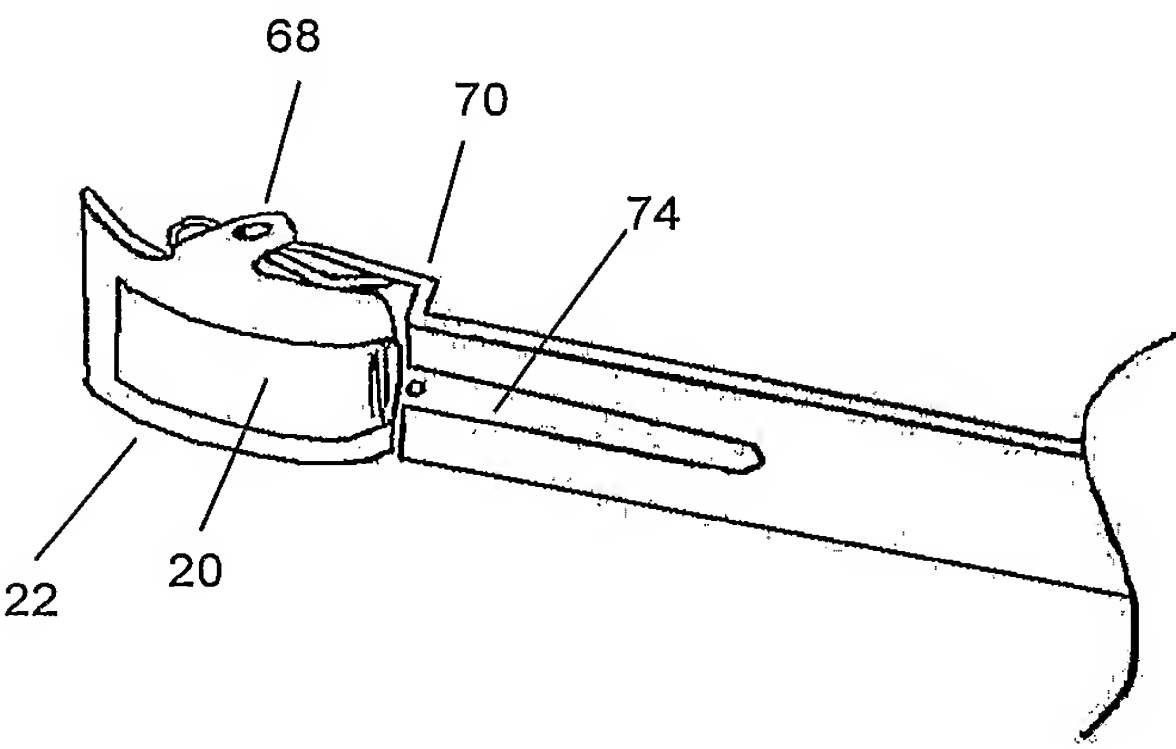


Figure 10

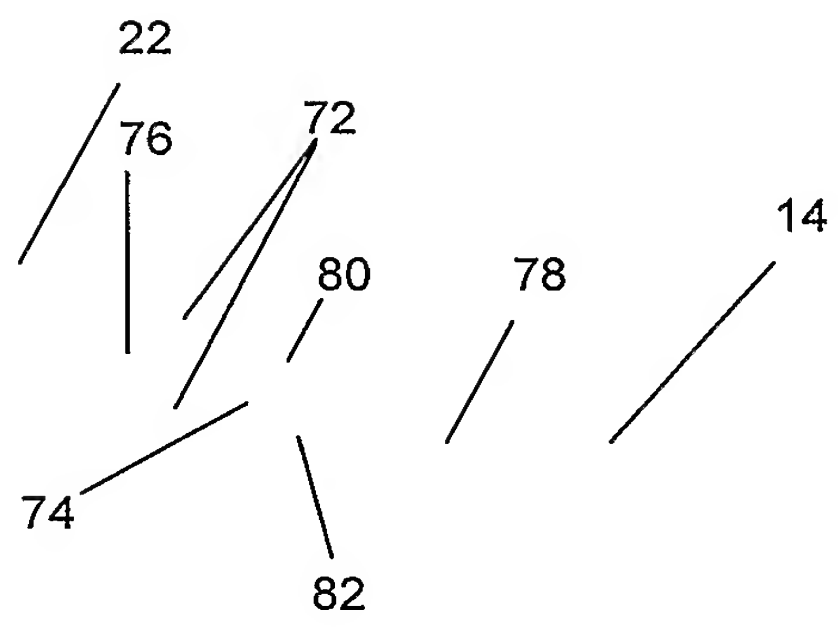
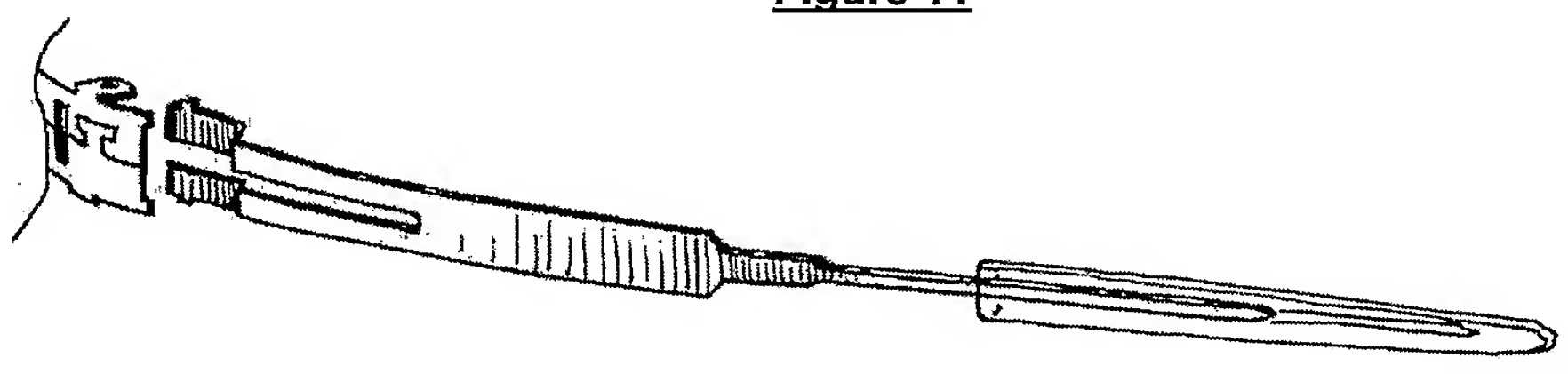


Figure 11



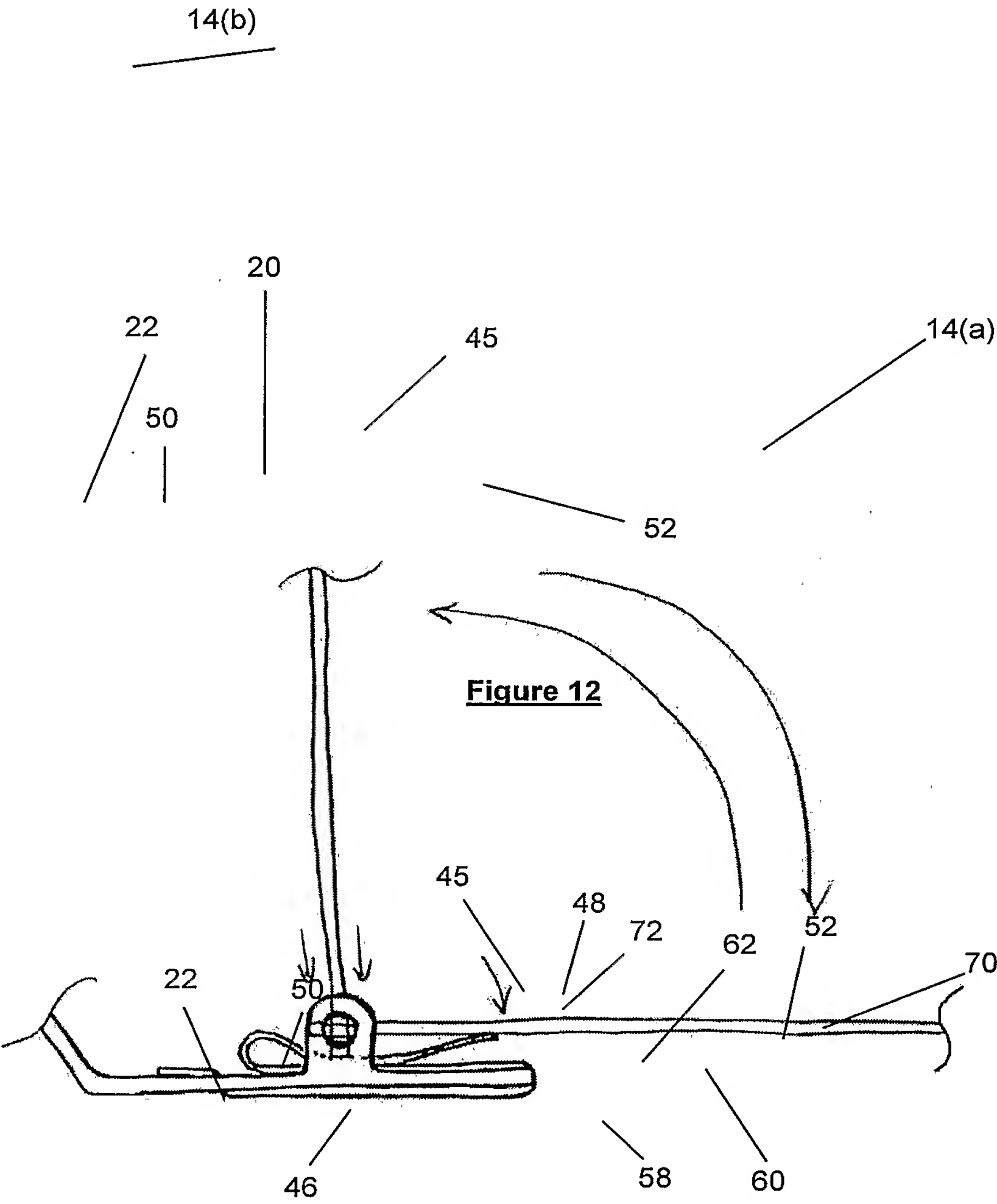
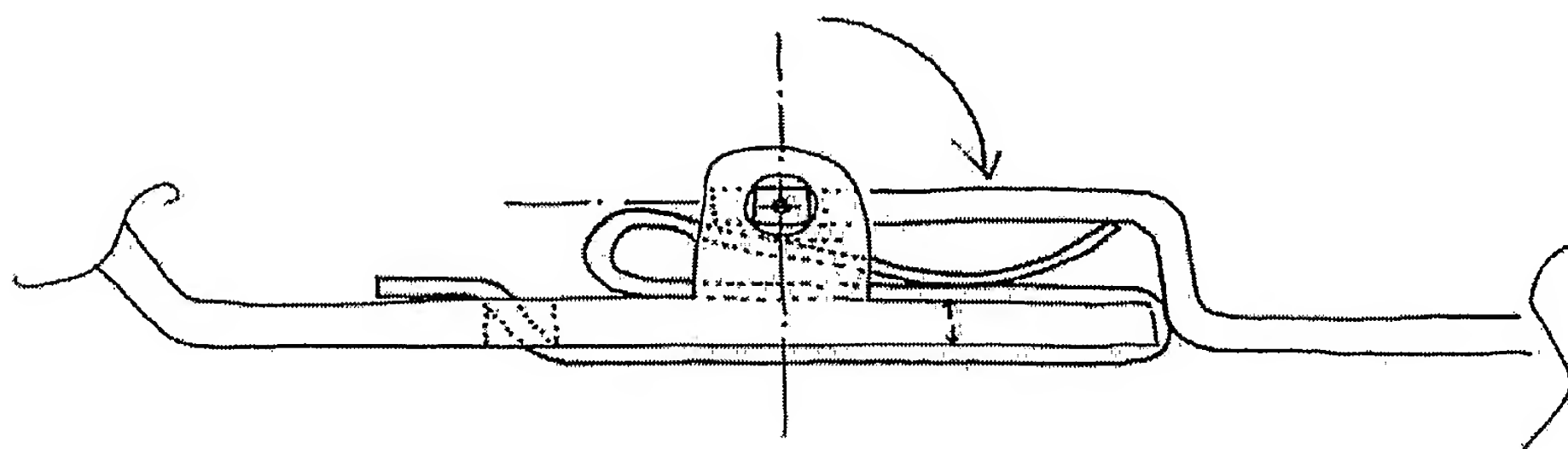


Figure 13



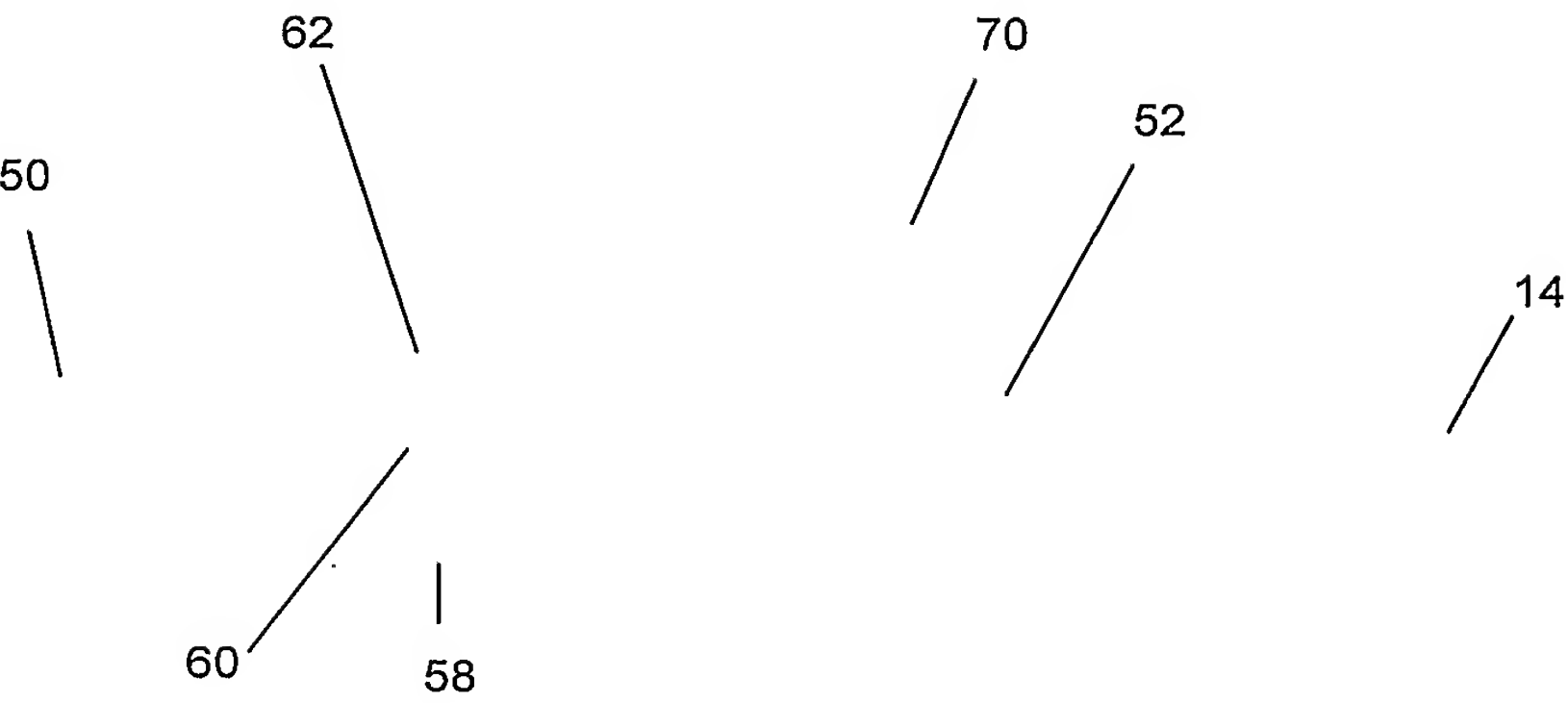
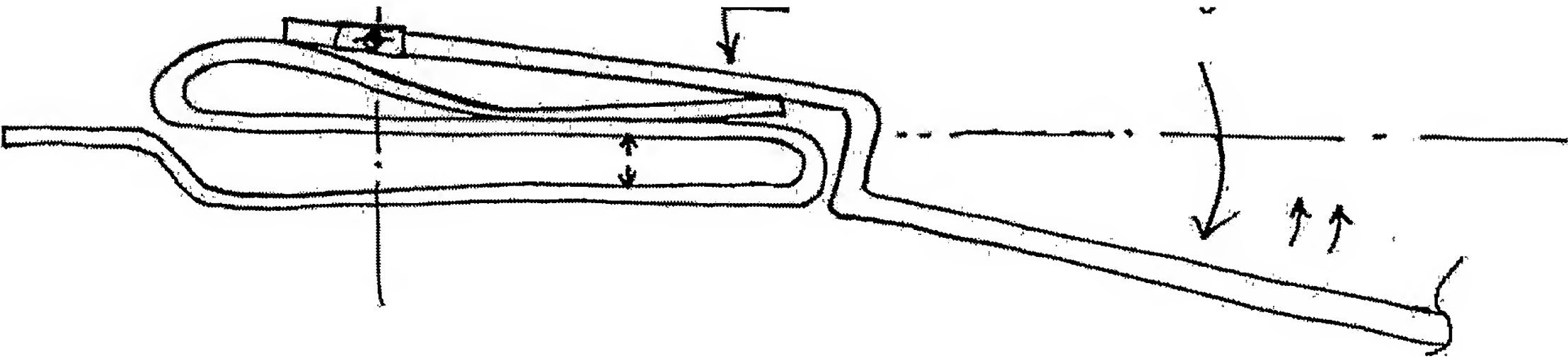


Figure 14



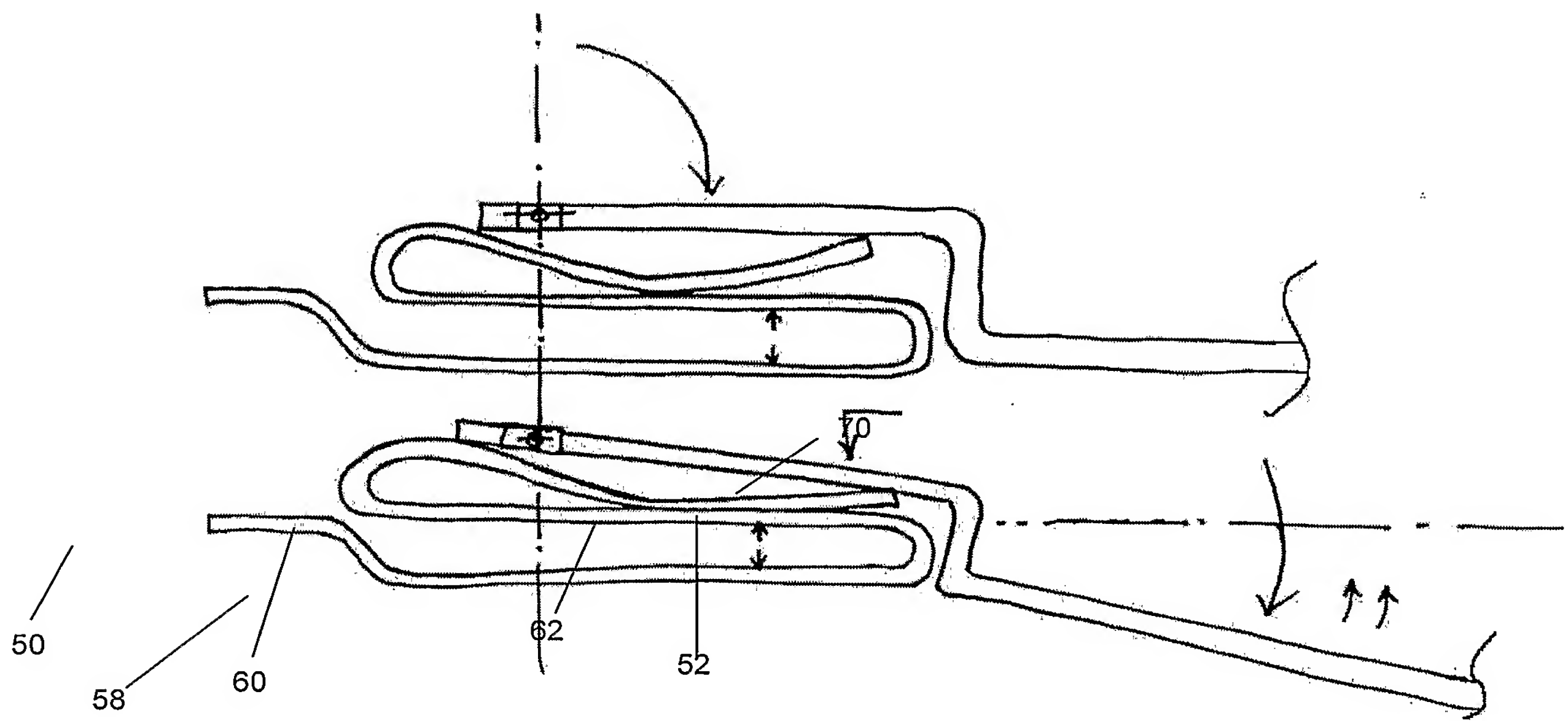


Figure 15

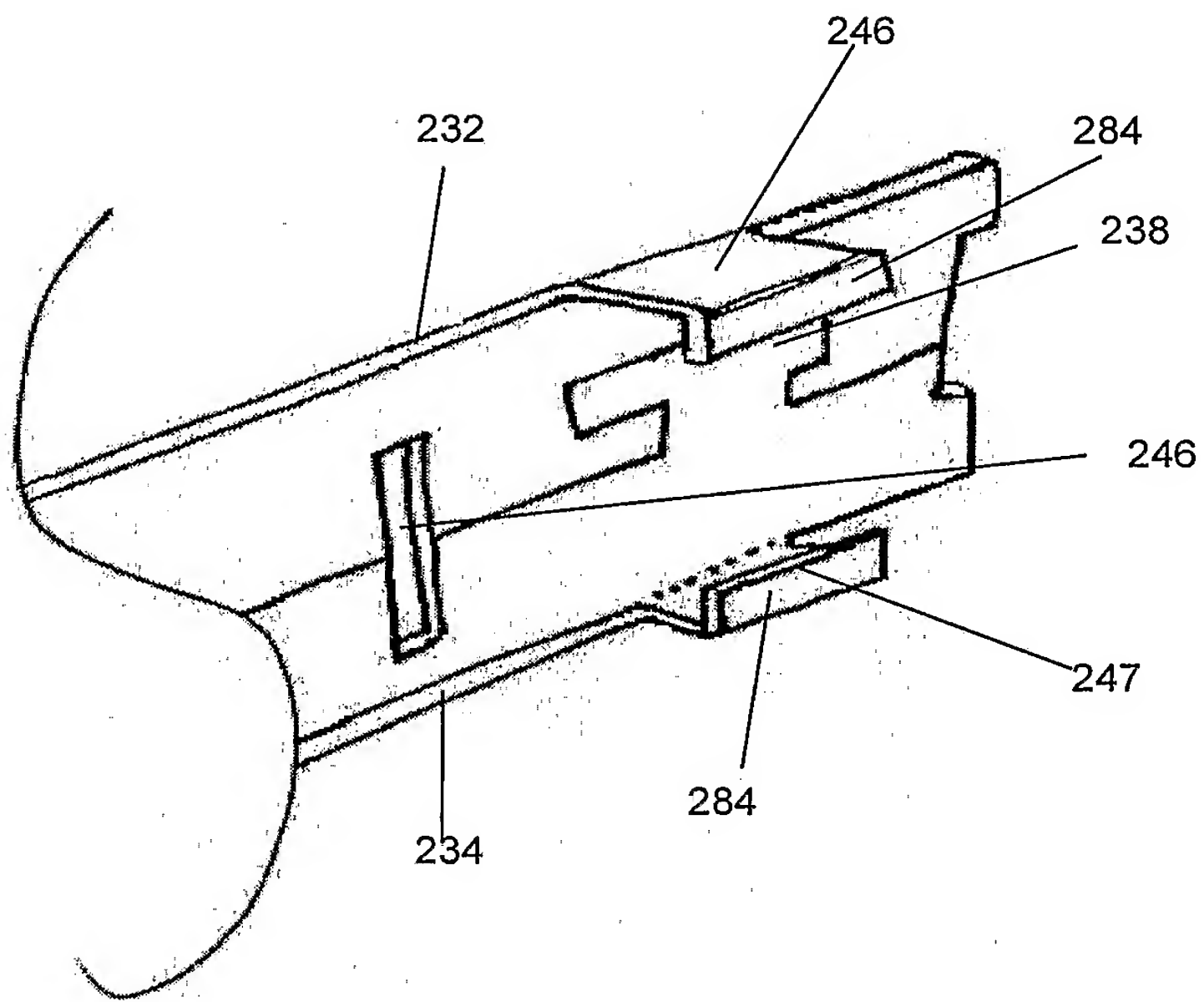


Figure 16

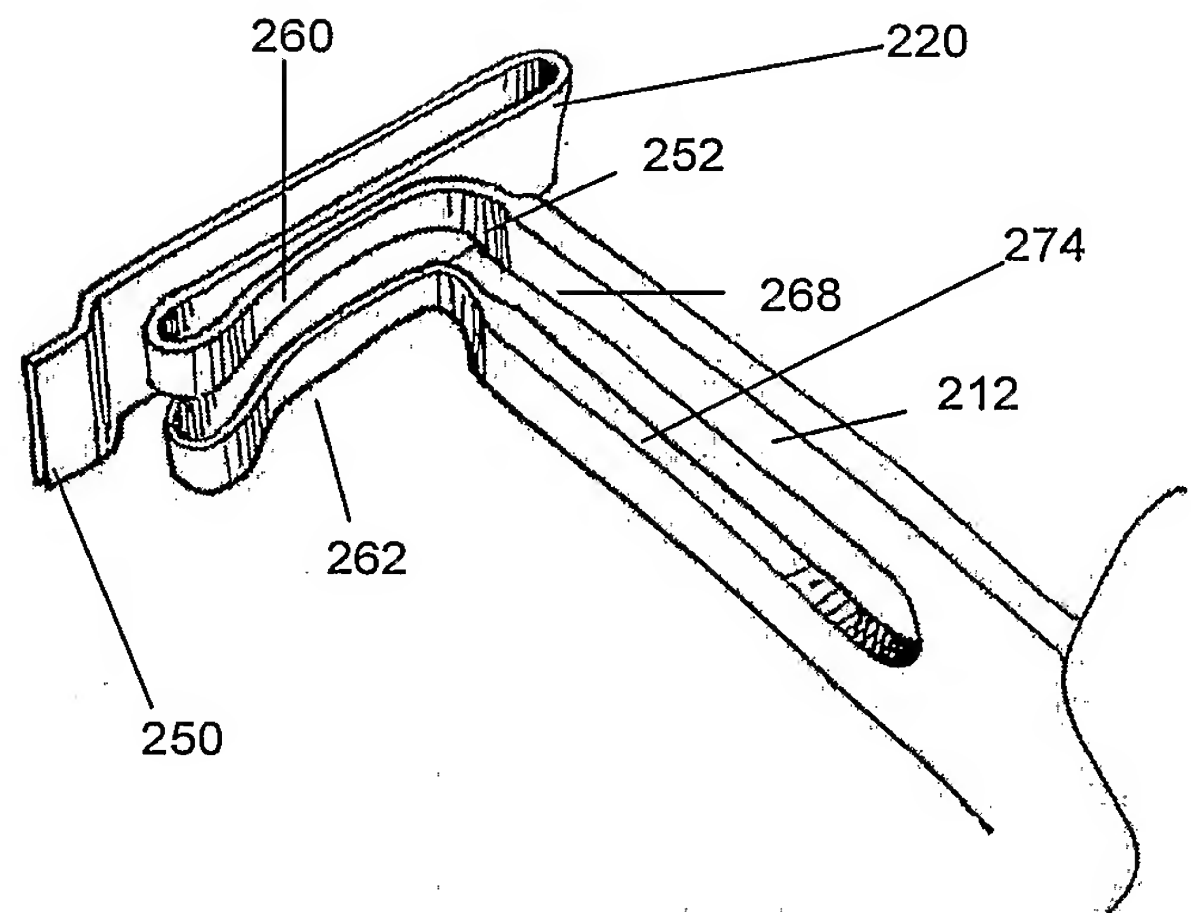


Figure 17

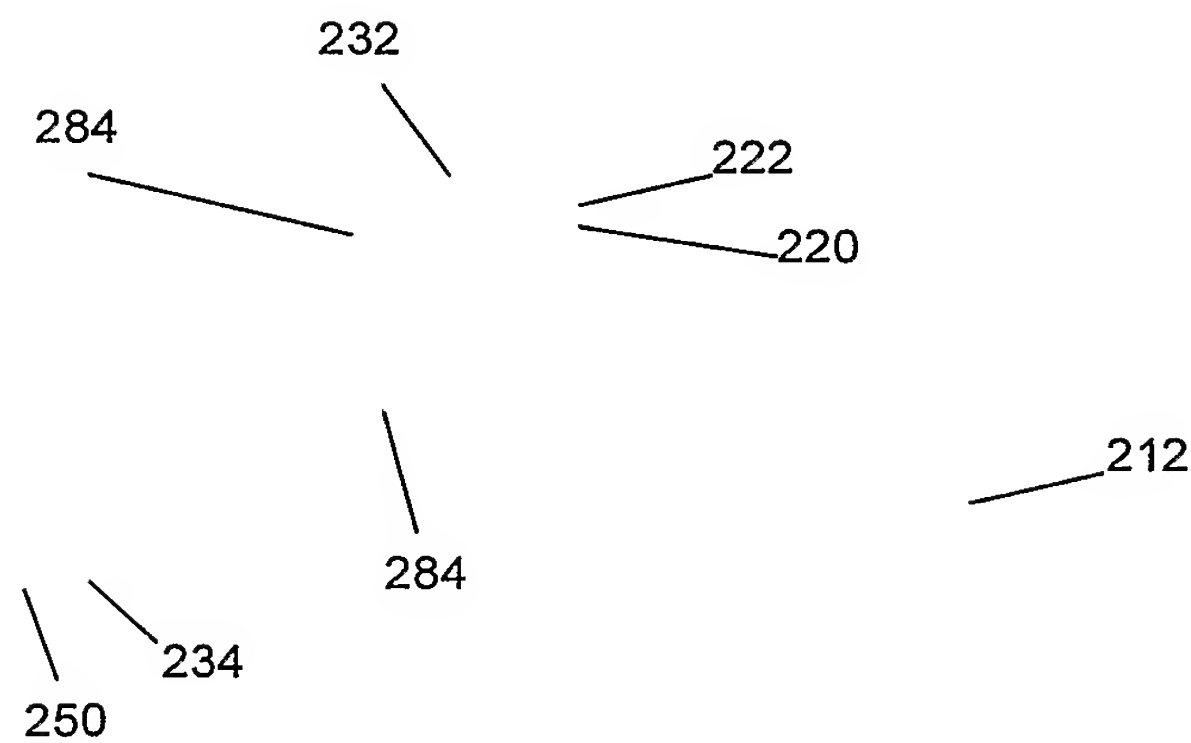
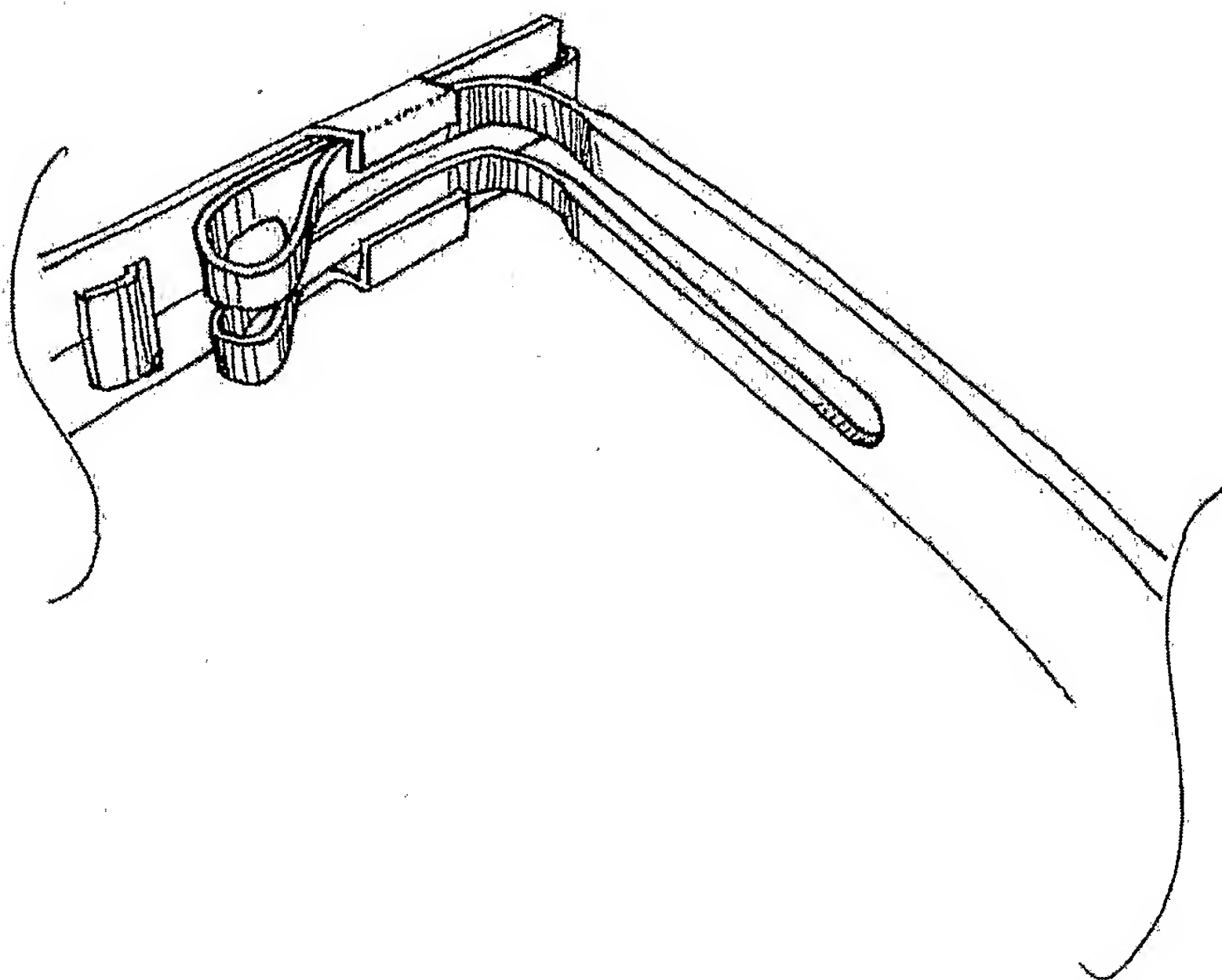


Figure 18



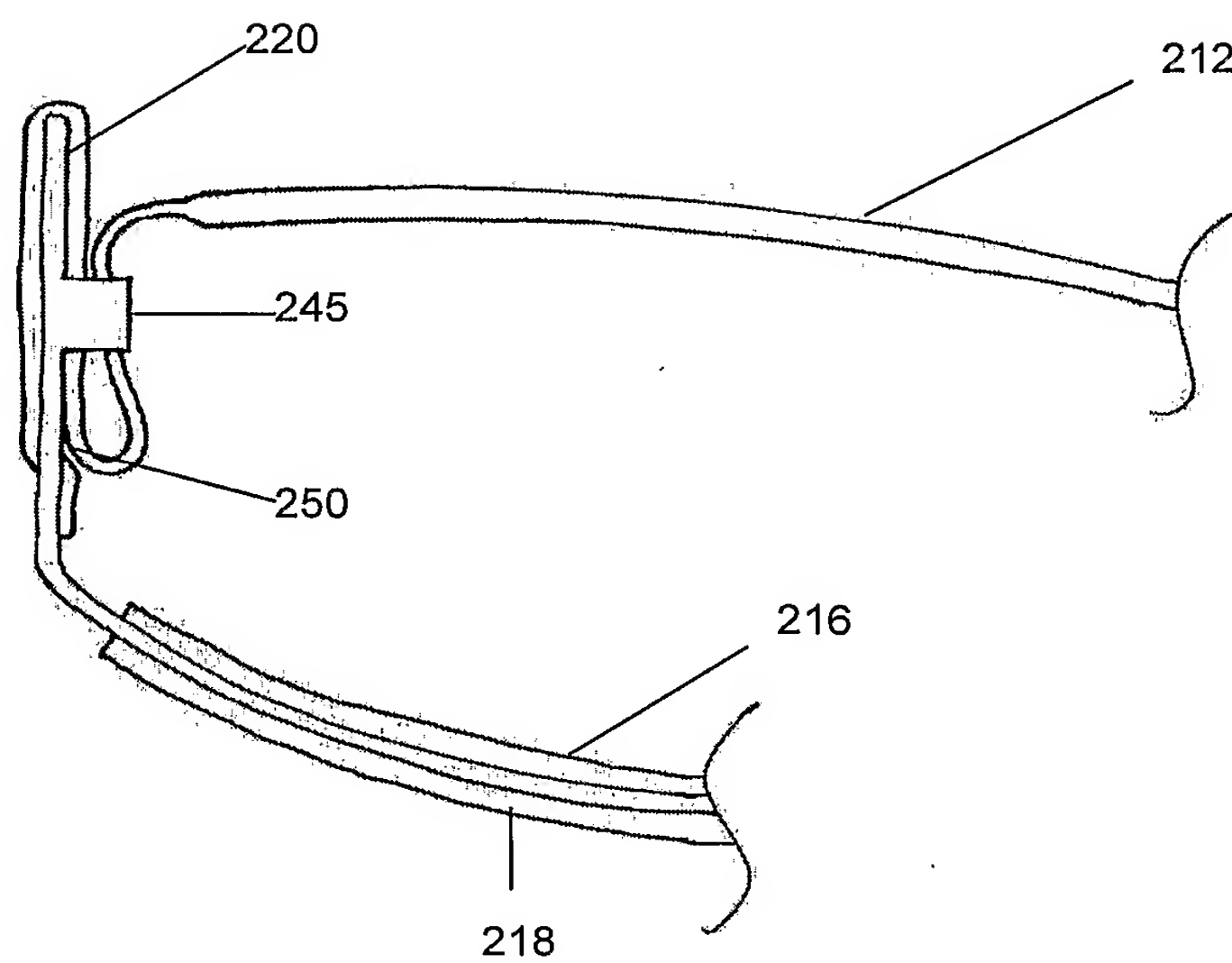


Figure 19

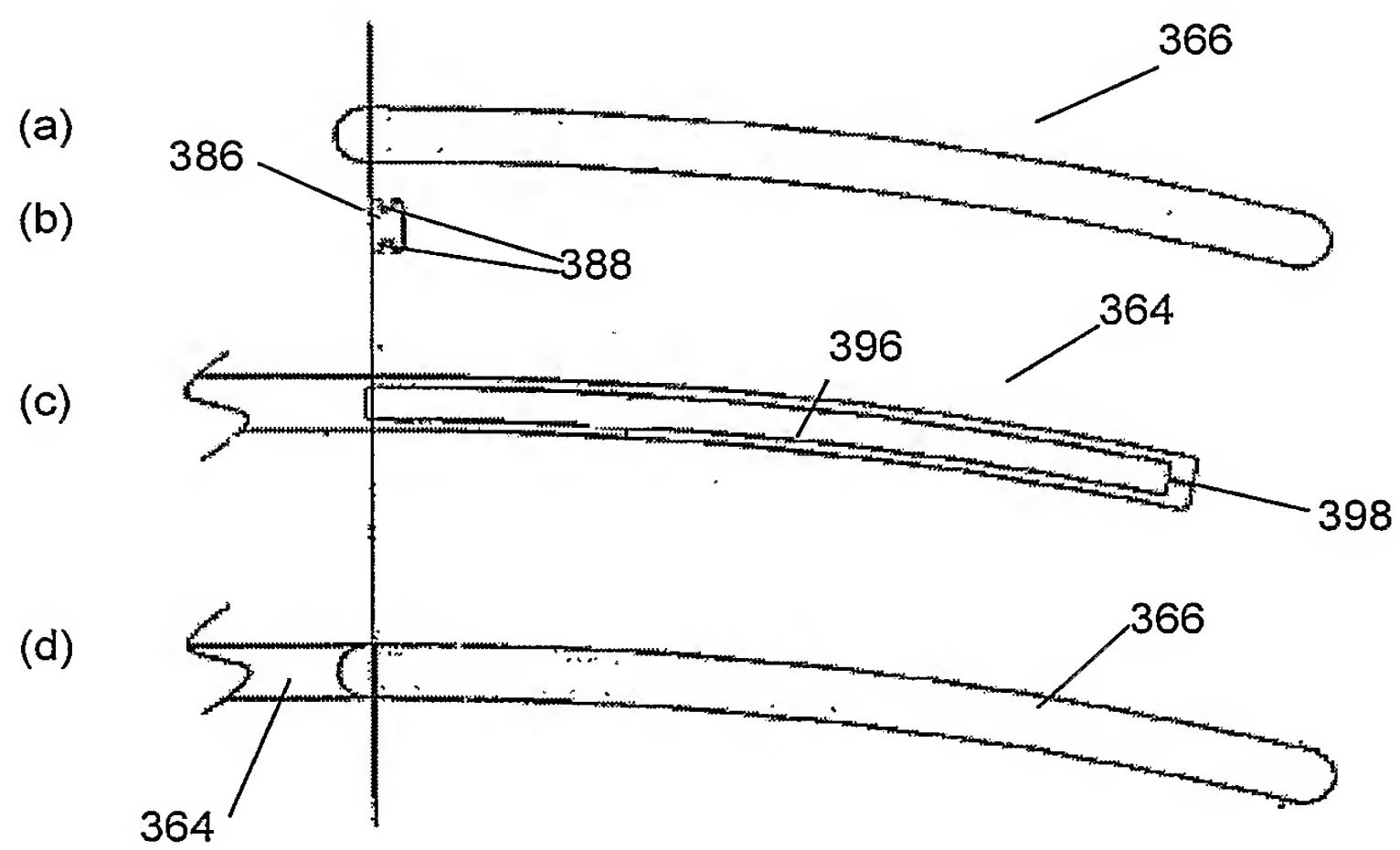


Figure 20